

INDEX.

Accumulator, Lead, The Internal Resistance of the, 587

Aeroplanes, Determination of the Altitudes of, 720.

Agassiz, G. R., Letter from, 685.

Agassiz, G. R., Max. and R. L., Letter from, 714.

Algal Coals, The Nature of Some Supposed, 271.

American Year Book Corporation, Committee of, 725.

Amerika-Institut of the German Government, 683.

Amory, Robert, Death of, 683.

Ants, Division of Labor among, 423, 713.

Assessment, Annual, Amount of, 733.

Atomic Weight of Iron, A revision of the, 716.

Atomic Weight, The, of Neodymium, 213, 684.

Babbitt, L. A., On the von Waltenhofen Effect in Soft Iron Rings, 735.

Baldwin, Loammi F., Letter from, 714.

Barroetia, Revision of the Genus, 725.

Baxter, G. P., and Chapin, H. C., A Revision of the Atomic Weight of Neodymium. First Paper.—The Analysis of Neodymium Chloride, 213, 684.

Baxter, G. P., and Thorvaldson, T., A Revision of the Atomic Weight of Iron. Fourth Paper.—The Atomic Weight of Meteoric Iron, 716.

Baxter, G. P., Thorvaldson, T., and Cobb, V., A Revision of the Atomic Weight of Iron.—Third

Paper.—The Analysis of Ferrous Bromide, 716.

Bell, Louis, On the Opacity of Certain Glasses for the Ultra-Violet, 669, 719.

Boston 1915, Civic Pageant, 683.

Boston 1915 Committee, 683.

Boston Vocation Bureau, First National Conference of, 684.

Bowditch, C. P., Report of Treasurer, 727.

Bowditch, H. P., Death of, 725.

Bowditch, H. P., Biographical Notice of, 739.

Bridgman, P. W., The Action of Mercury on Steel at High Pressures, 323, 686.

Buckingham, E. N., Division of Labor among Ants, 423, 713.

Buddhaghosa's Way of Purity Analysed, 716.

Building Committee, constituted, 733.

Butcher, S. H., Death of, 717.

Calanoid Copepoda from the Bermuda Islands, 735.

Calcium Carbide, On the Equilibrium of the System consisting of, Calcium Cyanide, Carbon, and Nitrogen, 245, 684.

Calcium Cyanide, On the Equilibrium of the System consisting of Calcium Carbide, Carbon, and Nitrogen, 245, 684.

Campbell, L. L. *See* Hall, E. H., and Campbell, L. L.

Campbell, W. W., elected Associate Fellow, 723.

Cannon, W. B., Biographical Notice of H. P. Bowditch, 739.

Carbon, On the Equilibrium of the System consisting of Calcium Carbide, Calcium Cyanide, and Nitrogen, 245, 684.

Carpenter, F. W., Feeding Reactions of the Rose Coral (*Isophyllia*), 147.

Carr, Lucien, resigns Fellowship, 726.

Cartago Earthquake in Costa Rica, An Investigation of the, 716.

Centrifugal Action, The Electromotive Force produced in Solutions by, 107.

Chapin, H. C. *See* Baxter, G. P., and Chapin, H. C.

Charter, Amendment of, 723.

Chemical Laboratory of Harvard College, Contributions from, 213, 509.

Chinese Paper Currency of about the Year 1375, 735.

Circles in S_3 , Infinitesimal Properties of Lines in S_4 with Applications to, 343, 686.

Circuits, Oscillating-Current, Vector-Diagrams of, 371, 686.

Coals, The Nature of Some Supposed Algal, 271.

Cobb, V. *See* Baxter, G. P., Thorvaldson, T., and Cobb, V.

Committees, Standing, appointed, 734.

Compositæ, On some hitherto undescribed or misplaced, 725.

Conductivity, Electrical, of Argentie Sulphide, Notes on the, 613, 720.

Coolidge, A. C., accepts Fellowship, 683.

Cooling-Curve Measurements, Investigation of Temperature Errors caused by the Protection Tube in, 720.

Coral, Rose (*Isophyllia*), Feeding Reactions of the, 147.

Council, Report of, 726; Financial Report of, 732.

Coupled Circuits, Theory of, under the Action of an Impressed Electromotive Force, with Applications to Radiotelegraphy, 291, 684.

Crafts, James Mason, awarded Rumford Premium, 733.

Cross, C. R., Report of the Rumford Committee, 729.

Curtis, Charles Gordon, presentation of Rumford Medal to, 725.

Curves on Reguli, A Fundamental Theorem Regarding, 686.

Daly, R. A., The Nature of Volcanic Action, 726.

Davis, A. McF., Chinese Paper Currency of about the Year 1375, 735; The Foundation of the Academy, 698.

Dixon, R. B., accepts Fellowship, 683.

Earthworms, The Reactions of, to Acids, 65.

Electric Circuits, The Effect of Sudden Changes in the Inductances of, as Illustrative of the Absence of Magnetic Lag and of the von Waltenhofen Phenomenon in Finely Divided Cores, 539.

Electrical Conductivity of Argentie Sulphide, Notes on the, 613, 720.

Electrical Inductivities of Certain Poor Conductors, 735.

Electrical Problems, Certain Mechanical Analogies of the, 539.

Electrical Theory, On Four-Dimensional Vector Analysis, and its Application in, 163.

Electromagnetic and the Thermomagnetic Transverse and Longitudinal Effects in Soft Iron, On the, 623, 719.

Electromotive Force, The, produced in Solutions by Centrifugal Action, 107.

Emmons, S. F., Death of, 725.

Endowment, Committee on, 718.

Esterly, C. O., Calanoid Copepoda from the Bermuda Islands, 735.

Eupatorieæ, Classification of, 725.

Evans, G. C., Note on Kirchhoff's Law, 95.

Evaporation, A Method for Determining Heat of, as applied to Water, 509.

Farabee, W. C., elected Resident Fellow, 715; accepts Fellowship, 717.

Farlow, W. G., Letter from, 714.

Feeding Reactions of the Rose Coral (*Isophyllia*), 147.

Fellows, Associate, deceased, —
C. B. Comstock, 726.
W. P. Craighill, 726.
S. F. Emmons, 725.
G. P. Fisher, 683.
M. W. Fuller, 683.
W. W. Howe, 726.
C. O. Whitman, 726.

Fellows, Associate, elected, —
W. W. Campbell, 723.

Fellows, Resident, deceased, —
Robert Amory, 683.
H. P. Bowditch, 725.
T. W. Higginson, 726.
L. P. Kinnicutt, 717.
F. C. Lowell, 720.

Fellows, Resident, elected, —
W. C. Farabee, 715.
A. C. Lane, 684.
R. C. Maclaurin, 715.
Albert Matthews, 716.
W. J. V. Osterhout, 684.
A. M. Tozzer, 715.

Ferrous Bromide, The Analysis of, 716.

Fisher, G. P., Death of, 683.

Ford, W. C., accepts Fellowship, 683.

Foreign Honorary Members, deceased, —
S. H. Butcher, 717.
F. J. Furnivall, 684.
J. H. van't Hoff, 726.
William Huggins, 726.
Robert Koch, 726.
Maurice Lévy, 726.
F. von Recklinghausen, 684.

Four-Dimensional Vector Analysis, and its Application in Electrical Theory, 163.

Francke, Kuno, The Historical Aspect of Mediaeval German Mysticism, 719.

Fuller, M. W., Death of, 683.

Furnivall, F. J., Death of, 684.

General Fund, 727, 732; Appropriations from the Income of, 716, 733.

Gill, Sir David, accepts Foreign Honorary Membership, 683.

Goodwin, W. W., Letter from, 692.

Gragg, F. A., A Study of the Greek Epigram before 300 b. c., 1.

Gray Herbarium of Harvard University, Contributions from, 725.

Greek Epigram, A Study of the, before 300 b. c., 1.

Griffith, Mrs. Catherine Rumford (Baldwin), Bequest of, 714.

Hall, Edward H., Address at Celebration of 1000th meeting, 689.

Hall, E. H., and Campbell, L. L., On the Electromagnetic and the Thermomagnetic Transverse and Longitudinal Effects in Soft Iron, 623, 719.

Halley's Comet, Investigations of, at Flagstaff Observatory, 684.

Harvard College. *See* Harvard University.

Harvard University. *See* Chemical Laboratory, Gray Herbarium, Jefferson Physical Laboratory and Zoological Laboratory.

Hayes, H. C., Investigation of Temperature Errors caused by the Protection Tube in Cooling-Curve Measurements, 720.

Hayes, H. V., Notes on the Electrical Conductivity of Argentic Sulfide, 613, 720.

Hazard, Ebenezer, Letter from, 693.

Henshaw, Samuel, Letter from, 716.

Higginson, T. W., Death of, 726.

van't Hoff, J. H., Death of, 726.

House Committee, Report of, 732.

House Expenses, Appropriations for, 732.

Hurwitz, S. H., The Reactions of Earthworms to Acids, 65.

Imperial Moscow University, 683.

Indeterminate Product, The, 363, 686.

Inductances of Electric Circuits, The Effects of Sudden Changes in, as Illustrative of the Absence of Magnetic Lag and of the von

Waltenhofen Phenomenon in Finely Divided Cores, 539.

Infinitesimal Properties of Lines in S_4 , with Applications to Circles in S_3 , 343, 684.

Institut Solvay, Letter from, 683.

International Botanical Congress (third), 714.

International Congress of Applied Chemistry (eighth), 683, 720.

International Congress of Geography (tenth), 683.

International Congress of Orientalists (sixteenth), 726.

International Congress of Philosophy (fourth), 717.

International Exposition of Industry and Labor, 683.

International Horticultural Expositions, 683.

Iron, Anomalous Magnetization in, 735.

Iron, Meteoric, The Atomic Weight of, 716.

Iron, The Resistivity of Hardened Cast, as a Measure of its Temper and of its Fitness for use in Permanent Magnets, 183.

Iron, A Revision of the Atomic Weight of, 716.

Iron, Soft, On the Electromagnetic and the Thermomagnetic Transverse and Longitudinal Effects in, 623, 719.

Iron, very pure Soft, The Magnetic Permeabilities at Low Excitations of two Kinds of, 205.

Iron and Steel Rings, The Magnitude of an Error which sometimes affects the Results of Magnetic Tests upon, 83.

Iron Rings, Soft, On the von Waltenhofen Effect in, 735.

Jagger, T. A., Jr., An Investigation of the Cartago Earthquake in Costa Rica, 716.

Jefferson Physical Laboratory, Contributions from, 83, 95, 183, 205, 291, 323, 539, 587, 633, 669.

Jeffrey, E. C., The Nature of Some Supposed Algal Coals, 271.

Johnson, D. W., The Supposed Recent Subsidence of the Massachusetts Coast, 686.

Kennelly, A. E., Vector-Diagrams of Oscillating-Current Circuits, 371, 686.

Kinnicutt, L. P., Death of, 717.

Kirchhoff's Law, Note on, 95.

Lane, A. C., elected Resident Fellow, 684; accepts Fellowship, 684.

Lanman, C. R., Buddhaghosa's Way of Purity analysed: first third, Morality, 716.

Lea, H. C., Meeting in memory of, 717.

Lewis, G. N., On Four-Dimensional Vector Analysis, and its Application in Electrical Theory, 173.

Librarian, Report of, 728.

Library, Appropriation for, 732.

Lines, Infinitesimal Properties of, in S_4 with Applications to Circles in S_3 , 343, 684.

Lombard, R. H. *See* Thompson, M. de K., and Lombard, R. H.

Longitudinal and Transverse Effects in Soft Iron, On the Electromagnetic and the Thermomagnetic, 623, 719.

Lowell, F. C., Death of, 720.

Lowell, Percival, Investigations of Halley's Comet at Flagstaff Observatory, 684.

Lyon, D. G., Harvard Excavations at Samaria in 1910, 725.

Maclaurin, R. C., elected Resident Fellow, 715; accepts Fellowship, 717.

Magnetic Lag, The Effects of Sudden Changes in Inductances of Electric Circuits as Illustrative of the Absence of, and of the von Waltenhofen Phenomenon in Finely Divided Cores, 539.

Magnetic Permeabilities, The, at Low Excitations of two Kinds of very Pure Soft Iron, 205.

Magnetic Tests upon Iron and Steel
Rings, The Magnitude of an Error which sometimes affects the Results of, 83.

Magnetization, Anomalous, in Iron, 735.

Magnets, Permanent, The Resistivity of Hardened Cast Iron, as a Measure of its Temper and of its Fitness for use in, 183.

Massachusetts Coast, The Supposed Recent Subsidence of the, 686.

Massachusetts Institute of Technology. *See* Research Laboratory of Physical Chemistry and Rogers Laboratory of Physics.

Mather, Samuel, Letter from, 694.

Mathews, J. H. *See* Richards, T. W., and Mathews, J. H.

Matthews, A., elected Resident Fellow, 715; accepts Fellowship, 717.

Meeting, Celebration of the one-thousandth, 687.

Mercury, The Action of, on Steel at High Pressures, 323, 686.

Moore, C. L. E., Infinitesimal Properties of Lines in S_1 with Applications to Circles in S_2 , 343, 686.

Moore, E. C., accepts Fellowship, 683.

Morse, H. W., and Sargent, L. W., The Internal Resistance of the Lead Accumulator, 587.

Museo nacional de Arqueología, Mex- ico, Letter from, 714.

Museum of Comparative Zoölogy at Harvard College. *See* Zoölogical Laboratory.

Mysticism, Mediaeval German, The Historical Aspect of, 719.

Neodymium, The Atomic Weight of, 213, 684.

Nitrogen, On the Equilibrium of the System consisting of Calcium Carbide, Calcium Cyanide, Carbon and, 245, 684.

Nobel Committee, Circulars from, 714.

Nominating Committee, appointed, 724.

Nubia, Lower, Account of the Archæological Survey of, 726.

Officers, elected, 734.

Opacity of Certain Glasses for the Ultra-Violet, On the, 669, 719.

Osterhout, W. J. V., elected Resident Fellow, 684; accepts Fellowship, 684.

Palache, Charles. *See* Warren, C. H., and Palache, C.

Pegmatite, The, of the Riebeckite-Aegerite Granite of Quincy, Mass., 686.

Peirce, B. O., Anomalous Magnetization in Iron, 735; The Effects of Sudden Changes in the Inductances of Electric Circuits as Illustrative of the Absence of Magnetic Lag and of the von Waltenhofen Phenomenon in Finely Divided Cores. Certain Mechanical Analogies of the Electrical Problems, 539; The Electrical Inductivities of Certain Poor Conductors, 735; The Magnetic Permeabilities at Low Excitations of two Kinds of very Pure Soft Iron, 205; The Magnitude of an Error which sometimes affects the Results of Magnetic Tests upon Iron and Steel Rings, 83; The Resistivity of Hardened Cast Iron as a Measure of its Temper and of its Fitness for use in Permanent Magnets, 183.

Pickering, E. C., Toastmaster at Celebration of 1000th meeting, 697.

Pierce, G. W., Theory of Coupled Circuits, under the Action of an Impressed Electromotive Force, with Applications to Radiotelegraphy, 291, 684.

Phillips, H. B., The Indeterminate Product, 363, 686.

Policy Committee, 715; Recommendations, 686, 717; Recommendations adopted, 718, 722; Report of, 717.

Price, Richard, Letter from, 695.

Publication Committee, Report of, 731.

Publication Fund, 728; Appropriation from Income of, 723, 733.

Radiotelegraphy, Theory of Coupled Circuits, under the Action of an Impressed Electromotive Force, with Applications to, 291, 684.

Reale Accademia delle Scienze, Torino, Letter from, 714.

Recklinghausen, F. von, Death of, 684.

Records of Meetings, 683.

Reguli, A Fundamental Theorem Regarding Curves on, 686.

Reisner, G. A., Account of the Archaeological Survey of Lower Nubia, 726.

Research Laboratory of Physical Chemistry of the Massachusetts Institute of Technology, Contributions from, 107, 163.

Resistivity, The, of Hardened Cast Iron as a Measure of its Temper and of its Fitness for use in Permanent Magnets, 183.

Richards, J. W., and Mathews, J. H., A Method for Determining Heat of Evaporation as applied to Water, 509.

Riebeckite-Aegerite Granite of Quincy, Mass., The Pegmatites of the, 686.

Robinson, B. L., Contributions from the Gray Herbarium of Harvard University, new series, no. xxxix. I. On the Classification of Certain Eupatorieae. II. Revision of the Genus Barroetia. III. On some hitherto undescribed or misplaced Compositae, 725.

Rogers Laboratory of Physics, Contributions from, 245.

Rotch, A. L., Report of Librarian, 728.

Royal Frederick University of Christiania, one hundredth anniversary, 717.

Rumford Committee, Report of, 729; Reports of Progress to, 730.

Rumford Fund, 727; Appropriations from the Income of, 725, 733; Papers published by Aid of, 95, 245, 509, 633.

Rumford Premium, 748; Award of, 733; Presentation of, 725.

Samaria, Harvard Excavations at, in 1910, 725.

Sargent, L. W. *See* Morse, H. W., and Sargent, L. W.

Solutions, The Electromotive Force Produced on, by Centrifugal Action, 107.

Standing Committees, chosen, 735.

Statutes, Committee on Amendment of, 719, 720, 722, 734.

Steel at High Pressures, The Action of Mercury on, 323, 686.

Stimson, F. J., resigns Fellowship, 720.

Story, W. E., A Fundamental Theorem Regarding Curves on Reguli, 686.

Sulphide, Argentite, Notes on the Electrical Conductivity of, 613, 720.

Thermomagnetic and the Electromagnetic Transverse and Longitudinal Effects in Soft Iron, On the, 633.

Thompson, M. de K., and Lombard, R. H., On the Equilibrium of the System Consisting of Calcium Carbide, Calcium Cyanide, Carbon, and Nitrogen, 245, 684.

Thomson, E., The First Extant Communication Presented to the Academy, 703.

Thorvaldson, T. *See* Baxter, G. P., Thorvaldson, T., and Cobb, V.

Tolman, R. C., The Electromotive Force produced in Solutions by Centrifugal Action, 107.

Tozzer, A. M., elected Resident Fellow, 715; accepts Fellowship, 717.

Transverse and Longitudinal Effects in Soft Iron, On the Electromagnetic and the Thermomagnetic, 623, 719.

Treasurer, Report of, 727.

Ultra-Violet, On the Opacity of Certain Glasses for the, 669, 719.

Universal Race Congress (first), 683.

Vector Analysis, On Four-Dimensional, and its Application in Electrical Theory, 163.

Vector-Diagrams of Oscillating-Current Circuits, 371, 686.
Verein für Naturkunde, Cassel, Letter from, 725.
Volcanic Action, The Nature of, 726.
von Waltenhofen Phenomenon in Finely Divided Cores, the Effects of Sudden Changes in the Inductances of Electric Circuits as Illustrative of the absence of Magnetic Lag and of the, 539.
von Waltenhofen Effect in Soft Iron Rings, On the, 735.
Warren, C. H., and Palache, C., The Pegmatites of the Riebeckite-Aegirite Granite of Quincy, Mass.; their Minerals, Structure, and Origin, 686.
Warren (C. M.) Committee, Report of, 730.

Warren (C. M.) Fund, 727; Appropriations from the Income of, 733.
Water, A Method for Determining Heat of Evaporation as Applied to, 509.
Williams, Samuel, Observations of a Solar Eclipse, October 27, 1780, 707.
Willson, R. W., Determination of the Altitudes of Aeroplanes, 720; The First Research undertaken by the Academy, 706.
Whitman, C. O., Death of, 726.
Winthrop, James, The Solar Eclipse at Penobscot, October 27, 1780, 710.
Zoölogical Laboratory of the Museum of Comparative Zoölogy, Contributions from, 65, 423.